<u>100</u>

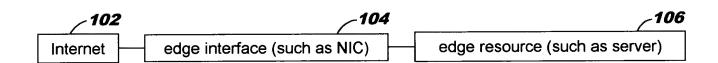


FIG. 2

<u>130</u>

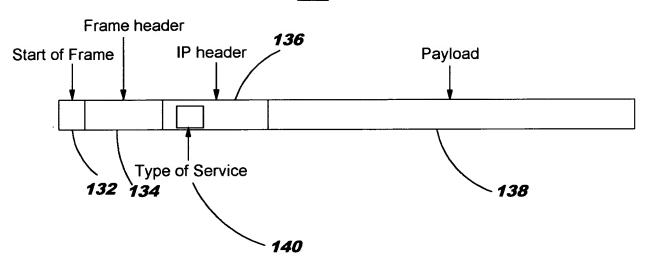
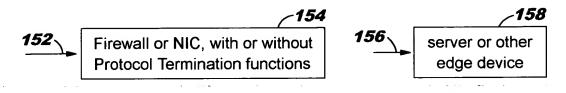
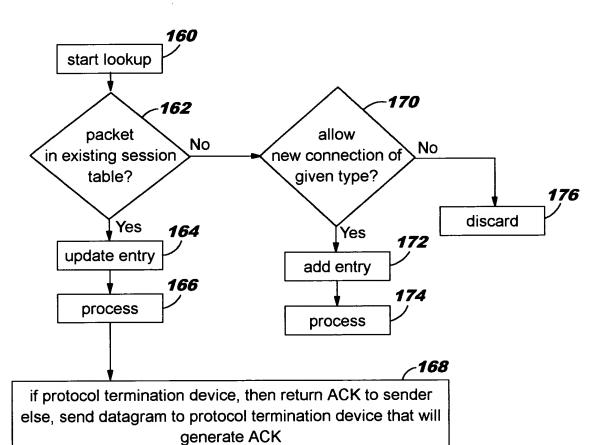


FIG. 3

<u>150</u>





<u>200</u>

low speed

Connection min and max values, pipe identifiers initialized in NIC

moderate speed

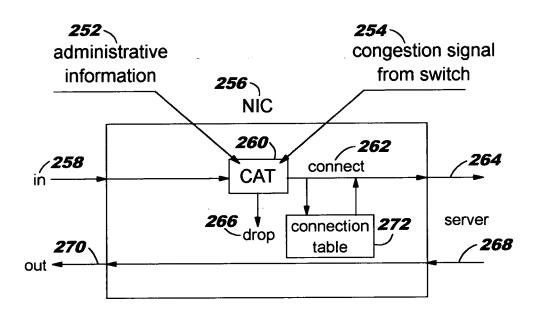
Current connection numbers and congestion signals collected and made available to algorithm

Algorithm refreshes probability of connection for different classes of service

high speed

New sessions request connections and connection decisions made

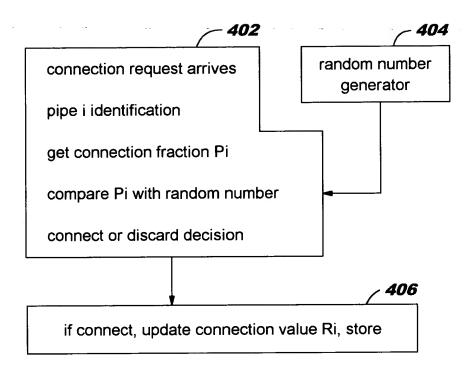
<u> 250</u>



<u>300</u>

- 1. min and max numbers of connections declared by administrator
- 2. coordinates of paths of traffic classes declared
- 3. paths using a common NIC source port collected in a set
- 4. Ci and Di coefficients computed for each pipe
- 5. Ci and Di entered in registers used in CAT calculation
- 6. congestion signals defined using path coordinates and resource limits

<u>400</u>



<u>450</u>

NIC with CAT Update connection probability table

Timer awakens program with period Dt

Fetch B, E values from registers

Update E and store

Fetch Ri, Ci, Di, Pi values from registers

Update Pi for each i and store in table of Pi values

<u>500</u>

CAT connection control refreshes connection fractions Pi for pipes

Timer with period Dt awakens CAT.

New connection fractions computed per pipe.

Results stored in a table.

